

CLAIMS

What we claim is:

1. A polypropylene tape fiber, wherein said fiber comprises in excess of 2000 ppm up to 5000 ppm of a nucleator compound and wherein said fiber exhibits a tensile strength of at least 3 grams/denier.
2. The polypropylene fiber of Claim 1 wherein said nucleator compound is selected from the group consisting of p-MDBS, 3,4-DMDBS, 2,4,5-TMDBS, DBS, sodium benzoate, NA-11, NA-21, disodium [2.2.1]heptane bicyclodicarboxylate, and any mixtures thereof.
3. The polypropylene fiber of Claim 2 wherein said nucleating agent is p-MDBS.
4. A fabric article comprising at least one polypropylene fiber as defined in Claim 1.
5. A fabric article comprising at least one polypropylene fiber as defined in Claim 2.
6. A fabric article comprising at least one polypropylene fiber as defined in Claim 3.
7. The fabric article of Claim 4 wherein said article is a carpet backing.
8. The fabric article of Claim 5 wherein said article is a carpet backing.

9. The fabric article of Claim 6 wherein said article is a carpet backing.
10. A polypropylene tape fiber, wherein said fiber comprises in excess of 2000 ppm up to 5000 ppm of a nucleator compound, wherein said fiber exhibits a shrinkage rate after exposure to 150°C hot air of less than 4%, and wherein said fiber exhibits a tensile strength of greater than 2.5 grams/denier.
11. The polypropylene fiber of Claim 10 wherein said nucleator compound is selected from the group consisting of p-MDBS, 3,4-DMDBS, 2,4,5-TMDBS, DBS, sodium benzoate, NA-11, NA-21, and any mixtures thereof.
12. The polypropylene fiber of Claim 11 wherein said nucleator compound is p-MDBS.
13. A fabric article comprising at least one polypropylene fiber as defined in Claim 10.
14. A fabric article comprising at least one polypropylene fiber as defined in Claim 11.
15. A fabric article comprising at least one polypropylene fiber as defined in Claim 12.
16. The fabric article of Claim 13 wherein said article is a carpet backing.

17. The fabric article of Claim 14 wherein said article is a carpet backing.

18. The fabric article of Claim 15 wherein said article is a carpet backing.